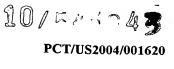
5



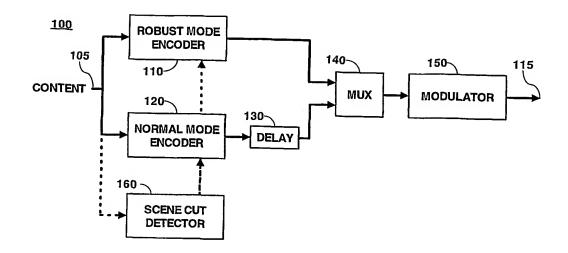


Fig. 1 Transmitter

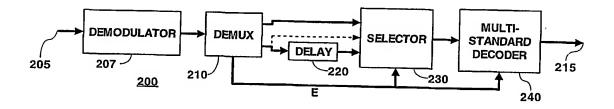


Fig. 2 Receiver

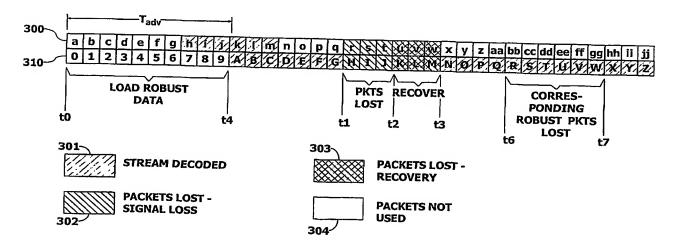


Fig. 3 Packet Streams



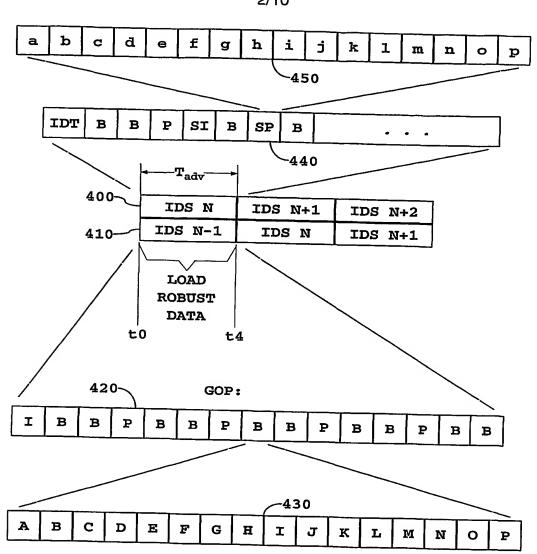
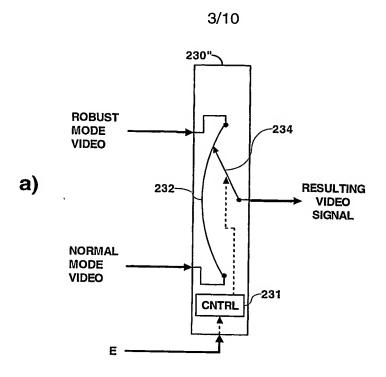


Fig. 4 GOP Streams

PCT/US2004/001620



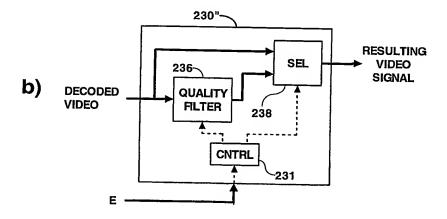


Fig. 5 Smoothing selector

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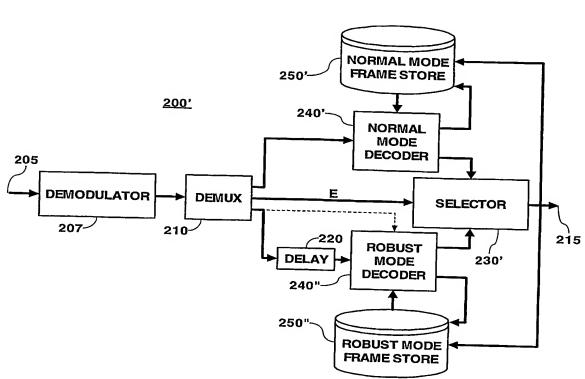


Fig. 6 Picture layer receiver

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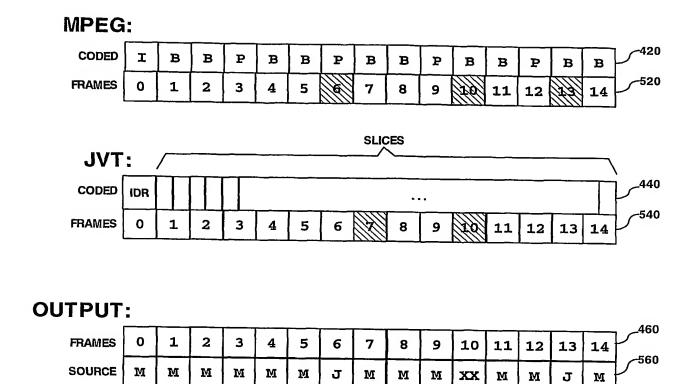
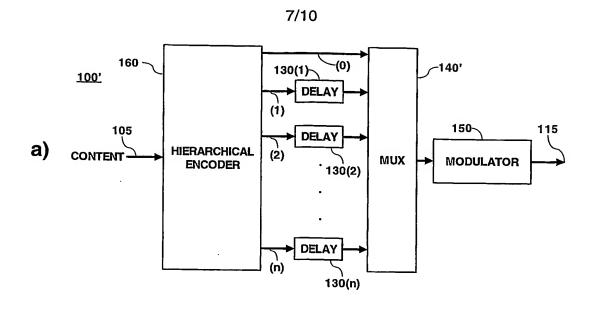


Fig. 7 Picture layer streams

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Number_of Robust_simulcast_channels	802	up to 256 channels supported	8 bit unit
For (i=0;i <number_of_robust_simulcast_channel< td=""><td>s;i++){</td><td></td><td>O DIL UIII</td></number_of_robust_simulcast_channel<>	s;i++){		O DIL UIII
Robust_Mode_PID	804	Identifies this channel in the TS	16 bit uni
Simulcast_data_type	806	0 = video	2 bit unit
WO:I		1 = audio	2 Dit Ullit
		2 = data	
If(Simulcast_data_type_=_0){	<u>812</u>		
Robust_Mode_video_compression_format		0 = ATSC MPEG2 MP@HL	6 bit unit
		1 = JVT MP@level	O Bit dilit
		all others reserved_for_future_use	ĺ
Robust_Mode_video_frame_rate		Frame rate in frames per second	7 bit unit
Robust_Mode_video_frame_interlaced		If O then progressive, else interlaced	1 bit unit
Robust_Mode_video_frame_horz		Horizontal frame resolution	16 bit unit
Robust_Mode_vjdeo_frame_vert		Vertical frame resolution	16 bit unit
Robust_Mode_video_frame_bitrate		Video elementary stream bit rate in bps	32 bit unit
Eise	<u>814</u>		OZ DIC GITT
Robust_Mode_audio_compression_format		0 ATSC AC-3	6 bit unit
		1 MP3pro	O Bit dilit
		all others reserved	l
Robust_Mode_audio_bitrate		Audio elementary bit rate in bps	24 bit unit
Robust_Mode_audio_sample_rate		Audio sample rate in Ksamples per sec	8 bit unit
Robust_Mode_audio_mode		0 5.1 channels	8 bit unit
		1 2 channel	Dit dille
		others	l
}			
Normal_mode_simulcast_PID	808	PID of the normal channel which this robust	16 bit unit
Debugge to New York		mode channel duplicates.	10 Dit uiiit
Robust_to_Normal_delay_offset	<u>810</u>	A 32 bit value in 90 KHZ clock cycles	32 bit unit
		indicating the delay from robust channel to	on on ann
		the normal channel	
Robust_Mode_High_Quality	<u>816</u>	IF 0 THEN the receiver should use the	1 bit unit
		normal channel if available ELSE the	
		broadcaster recommends use of the robust	
// end for loop robust channels		channel instead of the normal channel	i
" cha for loop robust channels			

Fig. 8 PSIP/VCT Table



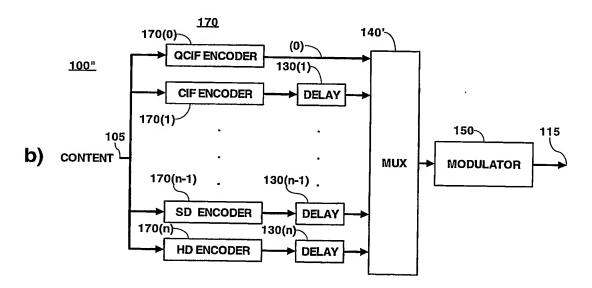
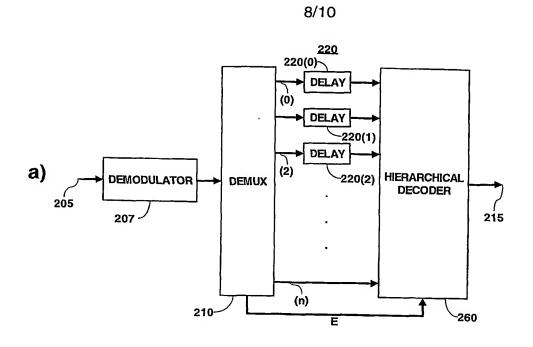
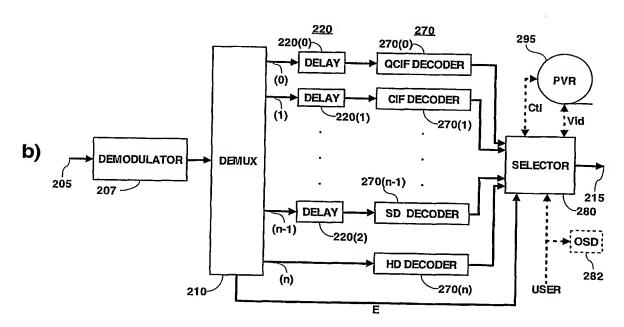


Fig. 9 Multiresolution transmitter







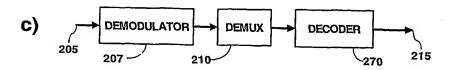


Fig. 10 Multiresolution receiver

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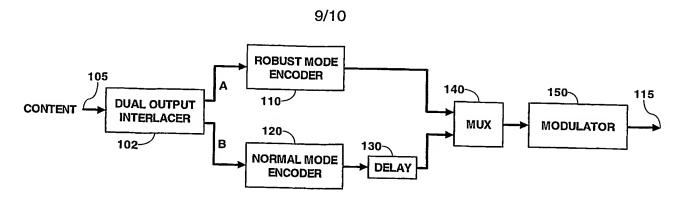


Fig. 11 Dual interlace transmitter

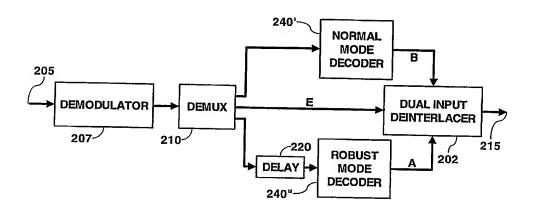


Fig. 12 Dual interlace receiver

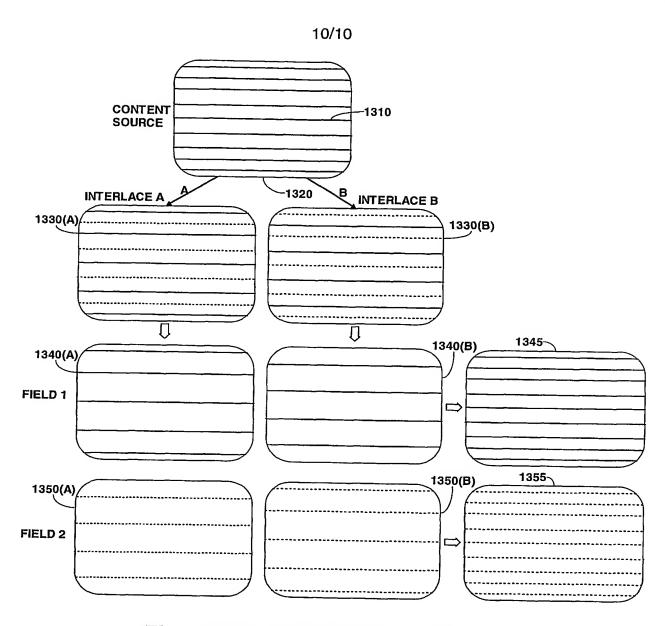


Fig. 13 Dual interlace scan images